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1: Eur Surg Res. 1985;17(3):160-6.

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## Peritonitis and septic shock--an evaluation of two experimental models in the rat.

**Martinell S, Falk A, Haglund U, Myrvold H.**

Two different experimental models for inducing septic shock have been characterized. In one, septic shock was induced by intraperitoneal injection of live *Escherichia coli* bacteria. This resulted in a dose-dependent mortality. Those animals surviving the first 24 h are considered as permanent survivors. In the other models, septic shock and peritonitis was induced by ligation and needle punctures of the cecum. This resulted in a slower development of shock which was almost invariably lethal within 96 h. Arterial blood pressure remained within the normal range in both models for up to 3 h after inducing peritonitis. Then a rapid deterioration was noticed in animals injected with live *E. coli*. White blood cells and platelets in arterial blood were reduced compared to controls in both groups. This reduction was more pronounced in animals injected with live *E. coli*. Both models are considered as useful tools in further studies of the pathophysiology of peritonitis and septic shock.

PMID: 3888638 [PubMed - indexed for MEDLINE]

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